Prime Factorization... ... Name:_____

1. Using a factor tree, find the prime factorization of 42.

2. Using a factor tree, find the prime factorization of 80.

3. Using a factor tree, find the prime factorization of 28.

4. Using a factor tree, find the prime factorization of 276.

5. Using a factor tree, find the prime factorization of 180.

6. Using a factor tree, find the prime factorization of 18.

7. Using a factor tree, find the prime factorization of 280.

8. Using a factor tree, find the prime factorization of 48.

1. Using a factor tree, find the prime factorization of 42.

- $2^1 \cdot 3^1 \cdot 7^1$

2. Using a factor tree, find the prime factorization of 80.

- $2^4 \cdot 5^1$

3. Using a factor tree, find the prime factorization of 28.

- $2^2 \cdot 7^1$

4. Using a factor tree, find the prime factorization of 276.

- $2^2 \cdot 3^1 \cdot 23^1$

5. Using a factor tree, find the prime factorization of 180.

- $2^2 \cdot 3^2 \cdot 5^1$

6. Using a factor tree, find the prime factorization of 18.

- $2^1 \cdot 3^2$

7. Using a factor tree, find the prime factorization of 280.

- $2^3 \cdot 5^1 \cdot 7^1$

8. Using a factor tree, find the prime factorization of 48.

- $2^4 \cdot 3^1$